

**RECORDING MEDIUM**

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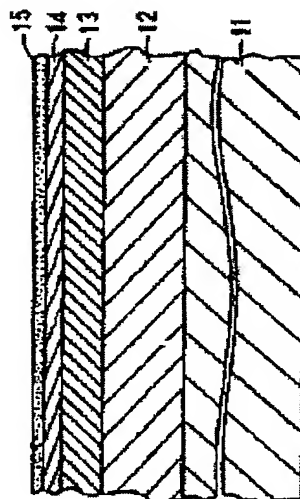
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**Abstract of JP2031325**

**PURPOSE:** To obtain the recording medium having high strength to cracking by maintaining a compressive stress layer up to at least 5 $\mu$ m inward of a substrate from the substrate surface and tensile stress of  $\leq 4\text{kg/mm}^2$  max. value generated further in the substrate.

**CONSTITUTION:** This recording medium consists of the glass substrate 11 which has  $3.7\text{kg/mm}^2$  tensile strength and has the compressive stress layer extending down to 115 $\mu$ m in the thickness direction from the substrate surface as well as a successively laminated underlying layer 12 which consists of chromium, a magnetic layer 13 which is a recording layer consisting of cobalt, nickel and chromium, a protective layer 14 which consists of carbon, and a lubricating layer 15 which consists of a fluorocarbon lubricating agent. The sufficient strength is, therefore, obtd., as the tensile stress generated further inward of the substrate than the compressive stress layer is  $\leq 4\text{kg/mm}^2$  is max. even if the cracks exceed 50 $\mu$ m. The recording medium effective for preventing the destruction by the crack and the degradation of the life is obtd. in this way.



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